1/EH-63 (i) (Syllabus-2015)

2019

(October)

ZOOLOGY

(Elective/Honours)

FIRST PAPER

(Systematics, Animal Diversity and Evolution)

Marks: 56

Time: 3 hours

The figures in the margin indicate full marks for the questions

Answer Question No. 1 which is compulsory and any four from the rest

- 1. Write in brief on any three of the following:
 - 4×3=12
 - (a) Six-kingdom classification
 - (b) Canal system of sycon
 - (c) Respiratory system in cockroach
 - (d) Salient features of amphioxus
 - (e) Geological timescale

- 2. What are the general characteristics of chordates? Highlight the diagnostic features of the class Mammalia. 5+6=11
- 3. Describe the life cycle of Entamoeba histolytica. Add a note on its pathogenicity.

 7+4=11
- 4. Describe the structure of water vascular system of Asterias with suitable diagram.

 0+2=11
- With the help of suitable diagram, describe the digestive system of rabbit.
- 6. Explain Charles Darwin's theory of Evolution and the deductions that lead to the theory of natural selection.

 7+4=11
- 7. (a) Give an account of the aquatic respiration in Pila with suitable diagram. 5+2=7
 - (b) Describe the salient features of Balanoglossus.
- 8. Write short notes on any two of the following: $5\frac{1}{2} \times 2 = 11$
 - (a) Taxonomic hierarchy
 - (b) Pathogenicity of Ascaris lumbricoides
 - (c) Paleontological evidences of evolution
